Petition of the Dockets to Co of Section 125	(Caption of Case) Petition of the Office of Regulatory Staff to Establish Dockets to Consider Implementing the Requirements of Section 1251 (Net Metering and Additional Standards) of the Energy Policy Act of 2005			BEFORE THE PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA COVER SHEET DOCKET NUMBER: 2005 - 385 - E					
(Please type or print	•		CCD N I	02/0	U-04-				
Submitted by: Address:	Catherine E. He		SC Bar Number:	704.382.8123					
Address.	Duke Energy Co		Telephone: Fax:	704.382.5690					
	Charlotte, NC 2		Other:	704.302.3070	<u>'</u>				
		0201 1000		duke-energy.co	m				
☐ Emergency R ☐ Other: INDUSTRY (C	elief demanded in		•	on Commission	's Agenda expeditiously				
		Affidavit	Letter		Request				
Electric/Gas		Agreement	☐ Memorandum		Request for Certification				
Electric/Telecon	mmunications	Answer	Motion		Request for Investigation				
Electric/Water		Appellate Review	Objection		Resale Agreement				
Electric/Water/	Telecom.	Application	Petition		Resale Amendment				
☐ Electric/Water/S	Sewer	Brief	Petition for Re	consideration	Reservation Letter				
Gas		Certificate	Petition for Ru	ılemaking	Response				
Railroad		Comments	Petition for Rule	e to Show Cause	Response to Discovery				
Sewer		Complaint	Petition to Inte	ervene	Return to Petition				
Telecommunica	ations	Consent Order	Petition to Inter-	vene Out of Time	Stipulation				
Transportation		Discovery	Prefiled Testin	nony	Subpoena				
Water		Exhibit	Promotion		☐ Tariff				
☐ Water/Sewer		Expedited Consideration	on Proposed Orde	r	Other:				
Administrative l	Matter	Interconnection Agreeme	nt Protest						
Other:		Interconnection Amendm	ent Publisher's Aff	ādavit					
		Late-Filed Exhibit	Report						



DUKE ENERGY CAROLINAS, LLC 526 South Church St. Charlotte, NC 28202 Mailing Address: ECO3T / PO Box 1006 Charlotte, NC 28201-1006

CATHERINE E. HEIGEL Assistant General Counsel 704.382.8123 OFFICE 704.382.5690 FAX ceheigel@duke-energy.com

March 7, 2008

Mr. Charles L. A. Terreni Chief Clerk/Administrator The Public Service Commission of South Carolina P. O. Drawer 11649 Columbia, South Carolina 29211

RE: Petition of the Office of Regulatory Staff to Establish Dockets to Consider Implementing the Requirements of Section 1251 (Net Metering and Additional Standards) of the Energy Policy Act of 2005

Docket No. 2005-385-E

Dear Mr. Terreni:

At the request of the Public Service Commission of South Carolina (the "Commission"), on February 14, 2008, representatives of Duke Energy Carolinas, Progress Energy Carolinas, and South Carolina Electric & Gas responded to the Commissioners' questions concerning net metering rates and riders previously filed with the Commission in response to Order No. 2007-626. The purpose of this letter and attachments is to further explain the two options proposed by Duke Energy Carolinas by providing a general description of the tariffs, a summary of the pricing and a sample bill calculation for a typical residential customer.

For Duke Energy Carolinas the options are (1) Rider NM, which must be used in conjunction with a time of use rate, and (2) Rider SCG, which can be used with time of use or non time of use rates. In the same way that standard rates are generally more attractive to smaller customers and time of use rates are attractive to larger customers, Rider SCG may be more appealing to small customers and Rider NM may appeal more to larger customers. The rate options are simply two different rate designs that accomplish the same purpose and can, in some cases, produce almost the same monthly bill.

Exhibit 1 shows the rate/rider prices side by side. Under a standard rate option, the energy charges are higher because they include the demand costs. Under the time of use rate option, the energy charges are lower because some of the demand costs are being determined

separately. For customers, who can use their own generation during peak hours or otherwise shift usage to off peak hours, real savings can be realized on time of use rates.

Exhibit 2 illustrates sample bills under both riders for a customer with a 2 kW photovoltaic system, whose actual usage is 1071 kWh, and where the PV system generates 263 kWh. The example shows that the basic costs are comparable (\$11.81 under SCG vs. \$11.59 under NM), as well as the total bill. For the calculation under the time of use rate, reasonable assumptions were made for the on-peak demand and ratio of on-peak kWh to off-peak kWh. As Exhibit 2 shows, there is less than \$1.00 per month difference in the average monthly bill. As additional information, the net monthly savings arising from the use of the customer generator is approximately \$15.00 per month under either option. To simplify the example, no excess kilowatt hours provided by the customer generator were assumed. If the customer generates excess, the net monthly bill could be reduced an additional 4 to 5 cents per excess kilowatt hour.

If you have any questions, please let me know.

Sincerely,

Catherine E. Heigel

cc: Parties of Record

Enclosures

DUKE ENERGY CAROLINAS RIDER SCG AND RIDER NM RATE OPTIONS FOR CUSTOMERS WITH SMALL GENERATORS WHO MEET THE INTERCONNECT STANDARD

SCHED	ULE RS (SC), Category 2, with Small Customer (Generator Rider SCG
RATE	CHARGES	All Months
RS2	Basic Facilities Charge	\$6.16
SCG	Supplemental BFC	\$3.75
SCG	Standby Charge	\$.95 per kW of generator
		All Months
RS2	First 1000 kWh per month	7.2715 cents/kWh
	Over 1000 kWh per month	8.7605 cents/kWh
RATE	CREDITS	
	When customer load exceeds generator load	All Months
RS2	First 1000 kWh per month	(7.2715 cents/kWh)
	Over 1000 kWh per month	(8.7605 cents/kWh)
	When generator load exceeds customer load	All Months
PP	On-Peak Energy Credit	(5.44 cents/kWh)
PP	Off-Peak Energy Credit	(3.90 cents/kWh)
Note 1:	Credits for excess energy, if any will further reduce	energy charges
Note 2:	Rider SCG can be used in conjunction with RS, RE	E, ES, or RT. The
	majority of Duke Energy residential customers are swhich is used in this example.	

RATE	CHARGES	All Months		
RT	Basic Facilities Charge	\$11.59 per month		
	Ç			
		June-Sept	Oct-May	
RT	On-Peak Demand Charge	\$6.41 per kW	\$3.21 per kW	
		All Mo	onths	
RT	On-Peak Energy Charge	5.1767 cents/kWh		
	Off-Peak Energy Charge	4.1969 ce	nts/kWh	
RATE	CREDITS	June-Sept	Oct-May	
RT	On-Peak Demand Credit	(\$6.41 per kW)	•	
		All Mo	onths	
RT	On-Peak Energy Credit	(5.1767 cents/kWh)		
RT	Off-Peak Energy Credit	(4.1969 cents/kWh)		
Note 1:	If the net energy component is and applied to following month. to the Company June 1 each ye	Accumulated energy of		

DUKE ENERGY CAROLINAS SAMPLE BILLS UNDER RIDER SCG AND RIDER NM RATE OPTIONS

Customer energy requirements are 1071 kwh, peak demand 7 kW, reduced to 5.7 kW with 2 kW PV system, 20% of kWh are used on-peak, and PV system generates 263 kwh

SCG	Standby Charge (2 kW system)	\$ 1.90	_	44.04
	Total Basic Facilities and Standby Charge		\$	11.81
	Energy Charges for 1071 kWh			
RS2	First 1000 kWh	1000	\$	72.71500
	Over 1000 kWh	71	\$	6.21996
	Energy Credits for 263 kWh from PV system.			
RS2	192 kWh at first 1000 kWH rate	192	\$	(13.96128
	71 kWh at over 1000 kWh rate	71	\$	(6.2200
	MONTHLY BILL		\$	70.56

			June	-Sept	Oc	t - May
RT	Basic Facilities Charge		\$	11.59	\$	11.59
RT	On-Peak Demand Charge					
	(assume 7 kW without PV)		\$	44.870	\$	22.47
RT	On-Peak Demand Credit					
	(assume 5.7 kW with PV 1.3 KW reduction)		\$	(8.33300)	\$	(4.1730
RT	Energy Charges for 1071 kWh (20% on-peak, 80% off-peak)					
	On-peak energy	214	\$	11.07814	\$	11.0781
	Off-peak energy	857	\$	35.96743	\$	35.9674
RT	Energy Credits for 263 kWh from PV system					
	On-peak energy credit	106	\$	(5.48730)	\$	(5.48730
	Off-peak energy credit	157	\$	(6.58913)	\$	(6.58913
			\$	83.10	\$	64.86
	WEIGHTED AVERAGE MONTHLY BILL (SUM	IMER/	WINT	reb)	\$	70.94